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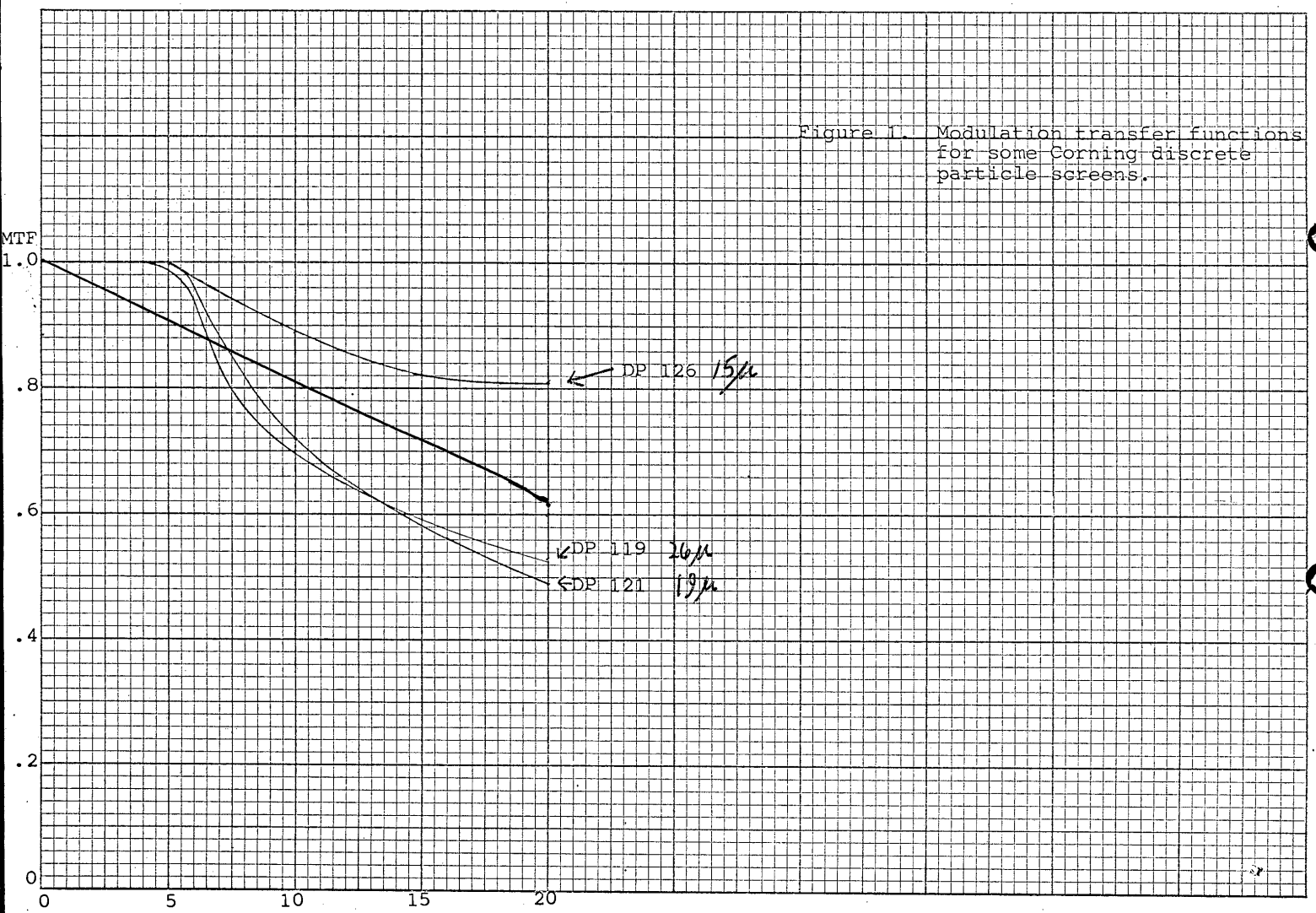

Figure 1. Modulation transfer functions for some Corning discrete particle screens.

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Sample	Ratio	Dye	T_{90} (%)	T_{45} (%)	BV (%)	Thickness (μ)	Gain	R_D (%)
1 DP165	1:5	No	59.9	41.7	60.8		3.74	8.61
2 DP167	1:4	No	63.5	46.4	71.3		5.25	8.04
3 DP168	1:6	yes	43.8	32.2	74.5		3.96	5.16
4 DP166	1:5	yes	41.4	29.7	70.4		3.29	5.74
5 DP171	1:4	No	65	50.1	84.2		8.45	6.32
6 DP172	1:4	yes	50.2	36.1	73.6		4.49	5.74
7 DP169	1:5	No	64.9	46.5	78.0		6.86	6.9
8 DP170	1:5	yes	54.6	38.5	79.8		6.51	5.74
9 DP152	1:2	No	50.2	29.2	36.5	7.7	1.88	13.4
10 DP159	1:2	Med.	46.2	26.3	31.9		1.6	11.2
11 DP160	1:2	Heavy	41.5	24.0	31.3		1.44	10.0
12 DP153	1:3	No	56.6	39.3	60.7		3.59	9.8
13 DP154	1:3.5	No	60.3	41.8	70.4		5.19	8.7
14 DP155	1:4	No	62.6	42.2	77.4	6.2	6.71	7.8
15 DP161	1:4	Light	58.6	41.5	76.8		6.33	7.2
16 DP162	1:4	Med.	51.1	36.6	74.2		4.92	6.6
17 DP163	1:4	Heavy	46.0	33.8	74.4	5.4	4.43	5.8
18 DP156	1:4.5	No	64.6	49.1	81.3		8.32	7.1
19 DP157	1:5	No	65.4	46.7	79.2	5.4	7.67	6.4
AC19B			62.	33.4	2.8		1.39	
AD64			73.2	50.5	30.0		2.7	5.5
AD62			68.3	38.0	9.0		1.7	16.5
AR5A			49.4	27.	6.1		1.24	39.
BB21A			51.9	28.	4.0		1.25	54.
BB31A			52.0	29.	3.0		1.29	52.

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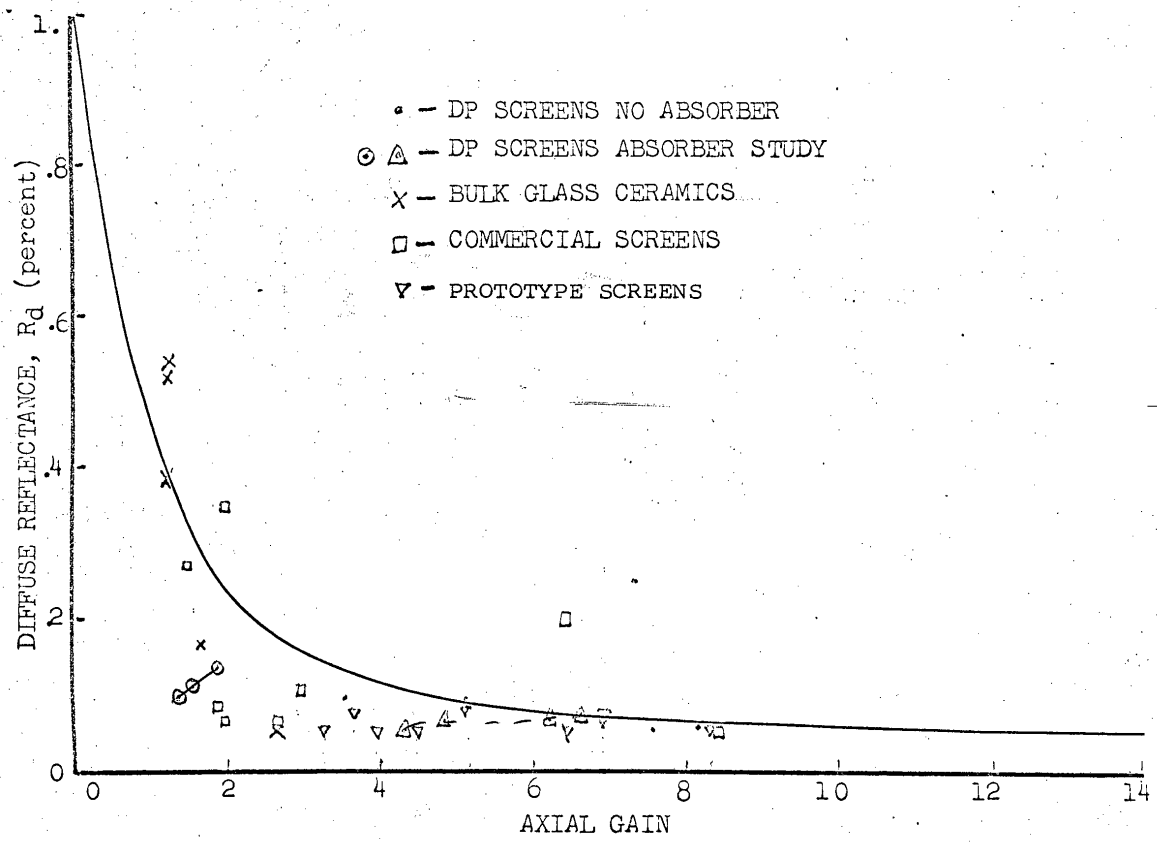

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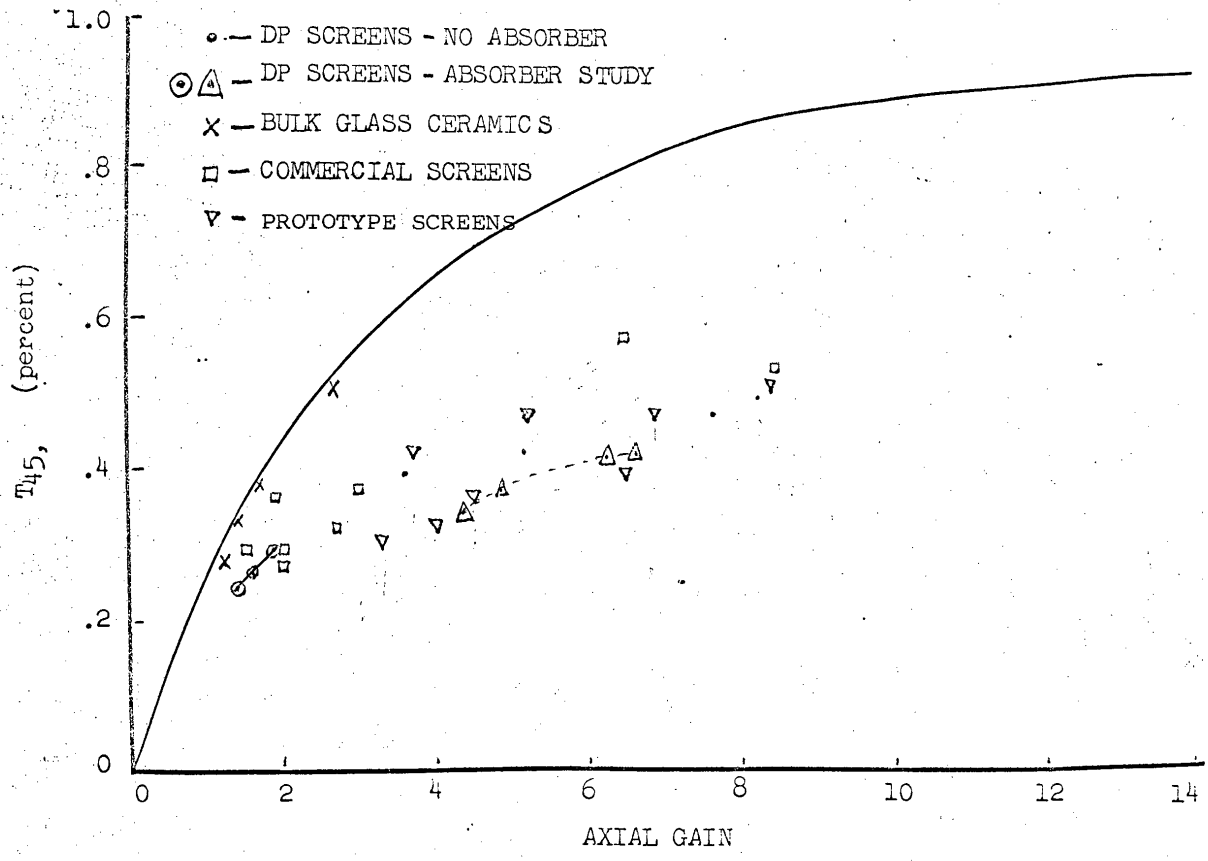

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PROJECTION SCREEN SUMMARY

CORNING SCREENS	Axial Gain	T_{90} (%)	T_{45} (%)	Brightness Variation (± %)	R_d (%)
CP-108	2.0	46.	27.	43.	18.
CP-109	2.9	48.	30.	59.	14.
CP-112	4.4	59.	44.	70.	7.6
CP-110	9.6	66.	55.	88.	5.5
DP-101	1.8	62.	35.	20.	40.
DP-103	4.3	67.	44.	59.	23.
CORT-1	11.8	49.	39.	93.	6.9
CORT-2	16.4	71.	64.	95.	12.7
COMMERCIAL SCREENS					
AV6G	1.5	48.	29.	24.	27.
TR50PL	1.9	60.	36.	24.	8.1
LS40-120	2.0	40.	27.	49.	6.4
S50R	2.0	48.	29.	40.	35.
LS60G	2.7	41.	32.	63.	6.2
LS60FM	3.0	52.	37.	57.	10.5
OC50FM	6.5	76.	57.	71.	20.
LS75G	8.5	60.	53.	89.	5.3
Contract Requirements	-	100	100	15	0

Resolution - MTF ≥ 0.9 at 10(20) cycles/mm.

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10 X 10 TO THE INCH 46 0780
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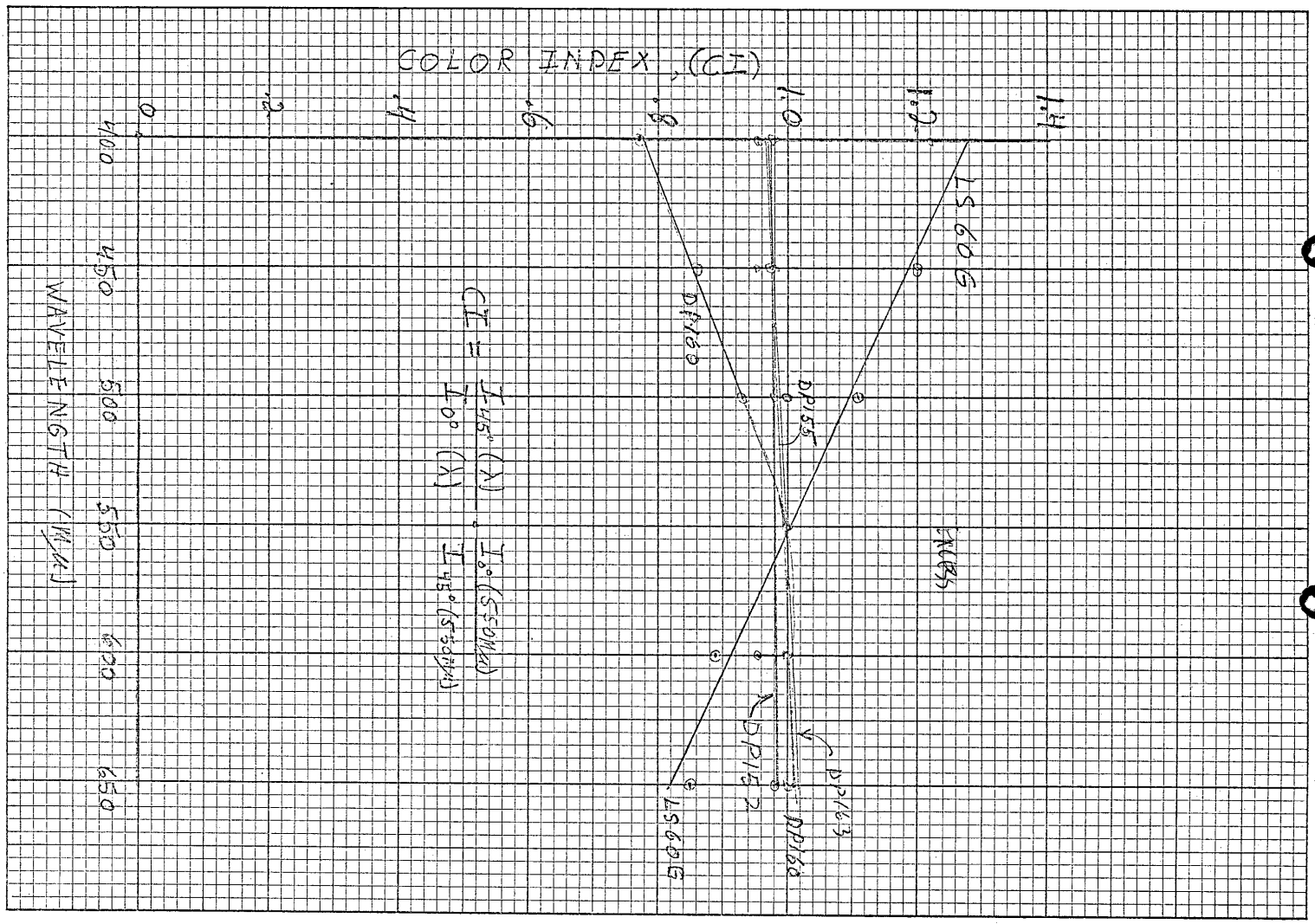

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12-5-67

MTF DATA

MTF
1.0
.8
.6
.4
.2
0

0 5 10 15 20

SPACE

7.7μ

KEY
Δ — DP-165
○ — DP-166
□ — DP-126
× — DP-152 7.7μ
▽ — LS60G
— — — FINAL CONTRACT REQUIREMENT
- - - - INITIAL " "

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TABLE I - OPTICAL PROPERTIES OF SOME DISCRETE PARTICLE SCREENS

Sample	Axial Gain	T_{45} (%)	T_{90} (%)	BV_{45} (%)	R_D (%)	Thickness
DP 119	1.1	24	43	± 13	20.	26 microns
DP 121	1.4	26	44	22	12	19
DP 126	1.6	27	44	34	9	15
DP 152	1.88	29.2	50.15	36.5	13.23	7.7
DP 153	3.59	39.3	56.6	60.7	9.54	
DP 154	5.19	41.8	60.3	70.4	8.53	
DP 155	6.71	42.2	62.6	77.4	7.87	6.2
DP 156	8.32	49.1	64.6	81.3	7.13	
DP 157	7.67	46.7	65.4	79.2	6.32	5.4
DP 159	1.6	26.3	46.2	31.9	11.09	
DP 160	1.44	24.0	41.5	31.3	9.85	
DP 161	6.33	41.5	58.6	76.8		
DP 162	4.92	36.6	51.1	74.2		
DP 163	4.43	33.8	46.0	74.4		5.4

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